

Re: Attorney Docket No. Ramprashad 4

In re application of: Sean Anthony Ramprashad

Serial No.: 10/706,724
Filed: 11-12-2003
Matter No.: 992.1104

Group Art Unit: 2416
Examiner: Habte Mered
Phone No.: 571-272-6046

For: Media Delivery Using Quality of Service Differentiation Within a Media Stream

DECLARATION UNDER 37 CFR 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

1. I am the applicant of the above-identified patent application and the inventor of the subject matter described and claimed therein ("the Invention").

2. Prior to May 11, 2003, I conceived the Invention.

3. Prior to May 11, 2003, I prepared an invention disclosure form documenting the Invention for purposes of review by the IP Law department of my employer, Agere Systems (see Exhibit A).

4. On May 20, 2003, the IP Law department mailed the invention disclosure form to the law firm of Mendelsohn and Associates for the preparation and filing of a patent application directed to the Invention (see Exhibit B).

5. On August 18, 2003, I was contacted by Yuri Gruzdkov, a patent attorney at Mendelsohn and Associates, regarding the scheduling of a conference call to discuss the Invention (see Exhibit C).

6. Between August 20 and September 9, 2003, I was on temporary leave of absence due to my wife giving birth to our child (see Exhibits D-E).

7. On September 15, 2003, I had a conference call with Yuri Gruzdkov regarding the drafting of a patent application directed to the Invention (see Exhibit F).

8. On October 6, 2003, I received from Yuri Gruzdkov a first draft of the patent application directed to the Invention (see Exhibit G).

9. After October 6, 2003, but no later than October 28, 2003, I reviewed the first draft of the patent application and provided my comments and suggestions to Yuri Gruzdkov (see Exhibit H).

10. On November 7, 2003, I received an email from Yuri Gruzdkov informing me that Richard Botos, the managing in-house attorney for this matter at Agere Systems, approved the revised draft of the patent application for filing with the U.S. Patent and Trademark Office (see Exhibit I).

11. The above-identified patent application was filed on November 12, 2003.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

29 MAR 2010

Date



Sean Anthony Ramprashad

Exhibit A (1/4)

992, 1104

AGERE SYSTEMS INVENTION SUBMISSION

This invention submission is being provided to an attorney in order to determine how to protect intellectual property and to facilitate efforts to acquire appropriate protection. Distribution of this invention submission shall be limited to attorneys and persons acting on behalf of Agere to facilitate making such determinations.

Shall be limited to attorney performing work on behalf of the firm.

Name(s) of Submitters	Telephone No:	Loc/Room	SBU/Org. Title:	HR ID:	E-Mail Address
Sean A. Ramprashad	908 582 6526	2D 556	30003592	4334524	ramprash@agere.com

TITLE: Robust media delivery and automatic adaptation to the channel using layered source coding combined with the Media Access Control

Important Notes: (1) Keep in mind that your submission should be written so it can be understood in 5 to 10 minutes by a generalist.

Avoid the use of undefined acronyms and jargon. Keep the language

(2) Have any of the above submitter(s) discussed this invention with, or provided an invention submission disclosing this invention to, an attorney other than the recipient of this invention submission? YES NO

JP LAW USE

Submission No: 124661

Date Received 2003

Attn: Attorney: Richard E. Botos

1. Describe the problem your invention solves:

The innovation allows for an efficient way to control and optimize the flow of multimedia traffic using a joint strategy of layered source coding and the Media Access Control (MAC). This joint strategy (innovation) gives the MAC layer increased degrees of freedom to control the information flow in each multimedia bit-stream. The specific innovations are:

- a) The idea of, and means for, enabling the MAC to have non-trivial control over the source transmission bit-rate of each multimedia source by using layered multimedia bit-streams. That is, the MAC has more options than simply to transmit or drop packets. The MAC can now divide the information of a given time segment (i.e. a packet) up into multiple subsets (sub-rates) transmitting or dropping different subsets in different ways. The layered source coder makes this possible.
 - b) The idea of allowing a single multimedia source to simultaneously use different QoS settings of the MAC. This is done by allowing different subsets (layers) of each multimedia bit-stream to use different Quality of Service (QoS) settings of the MAC. The layered source coder makes this possible.

Specific embodiments of the strategy in 802.11 solves the following problems:

- a) It allows the MAC itself to naturally scale the number of multimedia bit-streams the shared channel resource can handle. This is done by giving different subsets of each multimedia bit-stream different transmission priorities. When congestion occurs the less important subsets with less priority are naturally delayed or dropped. When the network is not congested more subsets are naturally transmitted.
 - b) It provides better multimedia quality since different layers in a multimedia bit-stream can be assigned the specific QoS that better matches their individual requirements. This is particularly important for multimedia bit-streams (in contrast to data) since it is often the case that different subsets of bits show different sensitivities (in terms of the decoded quality) to transmission impairments.
 - c) It provides better control of multimedia quality in cases where network conditions are constantly changing. For example, it is often better to ensure the more important subsets are transmitted than to drop entire packets of data. Also, when the network can handle transmitting more subsets of the bit-stream this is done naturally with the MAC transmitting more important subsets before less important subsets. This gives a controlled increase in the quality of the decoded multimedia stream. This strategy also balances the quality across all multimedia streams *rather than* one. *** Provide the information requested in this box on each page of the submission, as well as drawings, sketches, photographs, etc. ***

Submitter(s) signature(s) and date:

**This invention submission has been read and
understood by the following two witnesses:**

date

date

data

date

Exhibit A (2/4)

maintaining quality on some streams at the expense of others. This is what is often done now. For example a system may have a high priority audio stream that dominates the channel resource at the expense of a less important video stream.

- d) It simplifies the system design by eliminating the need for signaling between the MAC and higher communication layers, e.g. the MAC does not need to send a signal to the source coder in order to change the source bit-rate.

Background:

Robust media delivery over networks which have a finite shared channel resource, such as the Internet and 802.11 (WLAN), often requires the system to provide differentiated levels of service to different user bit-streams (sources), e.g. highest priority to voice, excellent effort to video, best effort to data, etc. This way the appropriate compromises are made for different types of traffic over the network.

However, even better performance can be seen if the sources themselves (in particular their bit-rates) adapt to the network conditions. Performance can be further improved if each source is itself allowed to make use of the multiple compromises possible, e.g. a single video stream may decide make use of highest priority, excellent effort, and best effort simultaneously. Such an option can be of particular advantage with media (voice, video, audio) traffic. The innovation provides an efficient way to implement both these options.

2. Based on information of which you are already aware, describe:

(i) previous attempts to solve the problem your invention solves:

- The Adaptive Multi-Rate (AMR) approach of GSM allows the system to properly balance resources of source coding and channel coding overhead. The fgmicrotec "fmM" white paper describes a similar idea to adapt the "flow" in a WLAN network using some feedback on the network performance.
- Another approach is Unequal Error Channel Protection (UEP). Here source-streams themselves are each broken down into sub-streams with each sub-stream given the optimal level of channel protection/detection. The latter is useful since source streams for multimedia, e.g. voice and video, do not have a uniform level of sensitivity across the stream to transmission impairments.
- There was a proposal I made along with Peter Kroon, Debasis Mitra (Bell Labs) and Allan Weis (Bell Labs) to use an embedded coder in a statistical multiplexer (Stat-Mux) to do adaptive flow control to improve network performance in VoIP. A patent application was filed by Allan Weis and Wonho Yang.
- Agere has a customer "SpectralLink" which has a feature allowing the 802.11 MAC to drop packets that have been delayed too much while waiting a successful transmission.

(ii) The disadvantages of the previous attempts:

The main disadvantages to the AMR-type approach:

- Both approaches require communication between the lower network layers and higher layers to change the source bit-rate produced by source (speech, video, audio etc) coders. This adds both complexity and latency in adaptation to the communication system.
- Both approaches require the channel condition to be estimate and they often adapt after estimation is done. If the channel is not stationary, or if the channel changes after estimation, the adaptation may not be relevant.
- In both approaches each source stream cannot be further sub-divided into the different levels of quality of service (QoS). The entire contents in a single bit-stream are given the same target QoS.

The main disadvantages of the UEP-type approach are:

- The UEP approach depends on using different forward error correcting codes during a single transmission. This is not part of the 802.11 standard.

*** Provide the information requested in this box on each page of the submission, as well as drawings, sketches, photographs, etc. ***

Submitter(s) signature(s) and date:

This invention submission has been read and
understood by the following two witnesses:

_____ date _____ date

_____ date _____ date

Exhibit A (3/4)

- b. UEP using multiple channel codes does not allow differentiated levels of quality in aspects such as transmission latency, throughput etc. In contrast, the MAC can provide such differentiated aspects of quality. UEP mainly provides differentiated levels of random bit-errors and error detection.

The Stat-Mux approach:

- a. This does not use a MAC layer and is therefore a different concept. The shared resource in this case is a common finite transmission buffer over a dedicated channel that has a constant transmission rate. This is different from the case where a MAC contends for a shared channel.

The SpectraLink approach:

- a. This approach, focused on voice, allows an entire packet to be dropped. This is equivalent to dropping all the information for a given time segment. Our approach is much more general and flexible. We are able to drop only subsets of the information of a given time segment.
- b. We can also let different subsets see different QoS (not simply the binary-level QoS which is either to drop or to transmit).

3. Summarize (30 words or less) the new feature(s) of your invention that solve the problem:

The main feature is the efficient combination of a layered source stream with the multiple levels of quality of service (QoS) provided by more advanced MAC layer design, e.g. those described in 802.11e. By using layered coding one can give the MAC layer increased control over the flow of source-streams. As a result the MAC can adapt transmission resources immediately without having to communicate to, or adjust functions of, the higher communication layers. Also, the combination allows a single source stream to be divided into multiple sub-streams thereby taking simultaneous advantage of the different QoS's provided by the MAC. This improves the performance of the overall system.

4. Succinctly describe your invention, referring to drawings, sketches, photographs, etc., in sufficient detail to enable one knowledgeable in the invention's field of technology to understand construction and operation of the invention.

Drawings, etc., should show only those features necessary for an understanding of the invention. Describe how/why your invention overcomes the disadvantages noted in 2. (ii) above.

- a) The innovation uses a layered (embedded or multi-descriptive) source code to provide a layered multimedia bit-stream. Layered coding allows the source decoder to independently decode different layers of the source bit-stream without the need for signaling to and from the source encoder. As a result, elements in the network between the source encoder and source decoder are themselves able to change the flow of different layers of the source bit-stream.
- b) The MAC now has the ability to access and transmit independently different subsets of each multimedia stream.
- c) The use of a layered multimedia stream is then combined with the differentiated levels of QoS that are managed by the MAC. The MAC can provide differentiated levels of QoS through use of known procedures, e.g. the use of different retransmit strategies, the use of different transmission priorities etc. as in 802.11e. These provide QoS differences in terms of quality measures such as throughput, latency (delay), packet loss rates etc.
- d) By giving the MAC layer control over the source-streams the source transmission characteristics can be adapted immediately by the MAC, e.g. to change the source transmission bit-rates, the number of streams that can be supported, the maximum delay in transmission etc. This is a natural thing to do since the MAC layer has immediate information on the channel condition and the MAC ultimately controls the flow of each multimedia-stream. There is no need to make explicit estimates of the channel, to signal estimates to higher layers, or do complicated coordination with higher layers.
- c) Layered source streams also allow the system to divide a single source stream into multiple sub-streams to give each their required (different) level of service provided by the MAC. This further optimizes performance, i.e. analogous to how UEP provides better quality than Equal Error Protection (EEP) but in this case entirely through the functioning of the MAC itself, not a channel code.

*** Provide the information requested in this box on each page of the submission, as well as drawings, sketches, photographs, etc. ***

Submitter(s) signature(s) and date:

**This invention submission has been read and
understood by the following two witnesses:**

_____	date
_____	date
_____	date

_____	date
_____	date

Exhibit A (4/4)

To give an example:

The source coder produces a layered source stream consisting of multiple layers. The MAC layer would then transmit the layers separately, or in sub-groups, with each group/layer having a different target QoS. This would be done and adapted in an optimal fashion based entirely on the features and information provided in the MAC layer. One thing to do would be to rank the layers depending on their importance. The most important layers could be given the best QoS possible and less important layers are given less stringent levels of QoS. The system can also be set up that the least important layers may even be dropped (not transmitted) as the immediate network resources dictate to ensure that more important layers have a better chance of getting transmitted.

5. Advantages of your invention:

- a. It allows the systems to adapt immediately in the MAC layer based on immediate (current) information, e.g. about retransmissions and congestion in the network etc.
- b. It does not require communication from the MAC to higher network layers thereby simplifying the system design and reducing adaptation latency.
- c. It also enables transmission resources to be allocated optimally among different layers within a *single* source stream. In fact, by doing this the joint performance across all source streams can be improved, e.g. it is often better if the most important layers of all sources are transmitted rather than if some source streams dominate the network at the expense of other sources.
- d. It can be used to design systems that naturally scale either in the number of multimedia streams that access the channel and/or the channel conditions. When the channel can handle providing good QoS to all source layers the amount of source information transmitted (source bit-rate) naturally increases providing better source quality at the receiver. When the network becomes congested the source information naturally decreases allowing the system to scale to accommodate the increased media load.

6. Explain how use of your invention would be detected:

To begin the invention could be present if the following things are noted in a system design.

- a. The use of a layered (embedded or multi-descriptive) source coder is used rather than a multi-rate or fixed-rate source coder
- b. The use of a MAC layer that can provide differentiated levels of QoS (e.g. as in 802.11e).

Beyond this one could detect the invention by seeing how the system reacts in bad channel conditions. If the invention were being used one would note a natural decrease in quality (e.g. SNR) in different decoded media streams as the network became congested (as opposed to dropouts or missing streams). Also, one can look at the system specifications or how the system is marketed. One of these would probably mention some advanced feature for either congestion control, robustness, or scalability. If the above features are present it is quite likely some form of the invention is being used.

*** Provide the information requested in this box on each page of the submission, as well as drawings, sketches, photographs, etc. ***

Submitter(s) signature(s) and date:

This invention submission has been read and
understood by the following two witnesses:



Exhibit B

992.1104

May 20, 2003

Steve Mendelsohn, Esq.
Mendelsohn & Associates, PC
1515 Market Street, Suite 715
Philadelphia, PA 19102

Kyshon J. Rivers
Outside Counsel Coordinator
Intellectual Property Law
P.O. Box 6114
Berkeley Heights, NJ 07922-0614
Tel: 908-582-2324 (610)-712-8514
Fax: 908-582-0766 (610)-712-8514
krivers@agere.com

Re:	IDS No.:	124661	(CLASS II)
	Managing Attorney		Telephone No.
	Rick Bots	(610) 712-8520	Fax No.
	Secretary	Telephone No.	(610) 712-8544
	Judith Williams-Matthew	(610) 712-8525	

Dear Steve:

The above-referenced patent submission enclosed with this letter must be filed by [REDACTED] 2003 in accordance with Agere's general instructions for Outside Counsel, previously furnished to you. If, for any reason, you cannot meet the filing date requested, you MUST notify the Managing Attorney (MA) and me, VIA FACSIMILE, as soon as possible.

After the final claims have been drafted and you are therefore in a position to identify the inventors, please send "Request for Case Name/Number" (ATTACHMENT G), VIA FACSIMILE, to me at (610) 712-8544.

This invention has been initially reviewed and determined to have significant potential commercial value. Accordingly, a copy of the proposed application is to be sent to the MA prior to execution of the Declaration and Assignment; all other substantive papers such as amendments, appeal briefs, and the like are also to be sent to the MA prior to filing. The MA will notify you to proceed or contact you to discuss any requested changes, as appropriate. Furthermore, for continuity purposes, it is important that the same attorney that prepared the application be assigned to work on its continued prosecution. If otherwise, please advise.

We request that this application be foreign filed EPC designating France, Germany and Great Britain, and nationally in Japan.

If, during the prosecution of an application, you believe that a CPA/CIP, Divisional, Appeal, etc. should be filed, your advice should be presented to the Managing Attorney for concurrence, prior to commencement of any work.

Very truly yours,

Kel
Kyshon J. Rivers

Enc.

RECEIVED [REDACTED] 03
MENDELSON & ASSOC.

CI-II

Exhibit C

From: "Ramprashad, Sean A (Sean)" <ramprash@agere.com>
To: "Yuri Gruzdkov" <yuri@mendelip.com>,
"Ramprashad, Sean A (Sean)"
<ramprash@agere.com>
Subject: RE: IP Sub. 124661
Date: Tue, 19 Aug 2003 10:02:59 -0400
X-Mailer: Internet Mail Service (5.5.2653.19)
X-MFData: [v1.0 t0,15195]

Dear Yuri,

If it is ok I'll give you a call tomorrow (Wed) afternoon, caught up in meetings all of today and tomorrow morning.

When is a good time for you? 3 pm?

Sean

-----Original Message-----

From: Yuri Gruzdkov [mailto:yuri@mendelip.com]
Sent: Monday, August 18, 2003 3:20 PM
To: ramprash@agere.com
Subject: IP Sub. 124661

Sean,

please contact me regarding your invention submission entitled "Robust media delivery and automatic adaptation..." forwarded to me by Agere. I will be working with you on the preparation of the corresponding patent application.

Thank you,
--Yuri

Yuri Gruzdkov
Mendelsohn & Associates, P.C.
1515 Market Street, Suite 715
Philadelphia, PA 19102
Tel. 215-557-8544
FAX 215-557-8477

This message is intended only for the designated recipient(s). If you are not a designated recipient, you may not review, copy or distribute this message. If you receive this in error, please notify the sender by reply e-mail and delete this message. Thank you.

Exhibit D

Subject: RE: IP Sub. 124661

Date: Mon, 25 Aug 2003 12:22:08 -0400

X-MS-Has-Attach:

X-MS-TNEF-Correlator:

Thread-Topic: IP Sub. 124661

Thread-Index: AcNlvcFalliWl0H0SeWblehAfXKnngFZxyvw

From: "Ramprashad, Sean A (Sean)" <ramprash@agere.com>

To: "Yuri Gruzdkov" <yuri@mendelip.com>,

"Ramprashad, Sean A (Sean)" <ramprash@agere.com>

X-MFData: [v1.0 t0,78856]

Yuri,

Sorry for missing the call with you. My wife went into labor on Thursday and I have been at the hospital since then... everything is fine.

I will call you later this week or early next week to set up a new meeting time...

talk to you then,

Sean

-----Original Message-----

From: Yuri Gruzdkov [mailto:yuri@mendelip.com]

Sent: Monday, August 18, 2003 3:20 PM

To: ramprash@agere.com

Subject: IP Sub. 124661

Sean,

please contact me regarding your invention submission entitled "Robust media delivery and automatic adaptation..." forwarded to me by Agere. I will be working with you on the preparation of the corresponding patent application.

Thank you,
--Yuri

Yuri Gruzdkov
Mendelsohn & Associates, P.C.
1515 Market Street, Suite 715
Philadelphia, PA 19102
Tel. 215-557-8544
FAX 215-557-8477

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Exhibit E

Subject: RE: IP Sub. 124661

Date: Wed, 10 Sep 2003 13:25:16 -0400

X-MS-Has-Attach:

X-MS-TNEF-Correlator:

Thread-Topic: IP Sub. 124661

Thread-Index: AcNlvcFalliWI0H0SeWblehAfXKnngSAqJOW

From: "Ramprashad, Sean A (Sean)" <ramprash@agere.com>

To: "Yuri Gruzdkov" <yuri@mendelip.com>,

 "Ramprashad, Sean A (Sean)" <ramprash@agere.com>

X-MFData: [v1.0 t0,34091]

Hi Yuri,

I back from leave and am free tomorrow or Monday to discuss the patent.
What time would be good for you?

best regards,

Sean

-----Original Message-----

From: Yuri Gruzdkov [mailto:yuri@mendelip.com]

Sent: Monday, August 18, 2003 3:20 PM

To: ramprash@agere.com

Subject: IP Sub. 124661

Sean,

please contact me regarding your invention submission entitled "Robust media delivery and automatic adaptation..." forwarded to me by Agere. I will be working with you on the preparation of the corresponding patent application.

Thank you,

--Yuri

Yuri Gruzdkov

Mendelsohn & Associates, P.C.

1515 Market Street, Suite 715

Philadelphia, PA 19102

Tel. 215-557-8544

FAX 215-557-8477

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Subject: RE: IP Sub. 124661

Date: Thu, 11 Sep 2003 10:39:09 -0400

X-MS-Has-Attach:

X-MS-TNEF-Correlator:

Thread-Topic: IP Sub. 124661

Thread-Index: AcN3w3674l7KQKVFSqibQqHDowpTTgArlU8g

From: "Ramprashad, Sean A (Sean)" <ramprash@agere.com>

To: "Yuri Gruzdkov" <yuri@mendelip.com>,

 "Ramprashad, Sean A (Sean)" <ramprash@agere.com>

X-MFData: [v1.0 t0,53597]

Exhibit F

Hi Yuri,

Great, confirmed. I will be at 908 626 1251 at that time.
I will try to get the materials out to you sometime today or
early tomorrow.

9/15 2 10:30 am.

Thanks,

Sean

> -----Original Message-----

> From: Yuri Gruzdkov [mailto:yuri@mendelip.com]

> Sent: Wednesday, September 10, 2003 1:47 PM

> To: Ramprashad, Sean A (Sean)

> Subject: RE: IP Sub. 124661

>

>

> Sean,

>

> how about Monday, at 10:30 am?

>

> In addition, it would be helpful if you could forward to me a

> soft copy of

> the disclosure along with other materials, which you deem

> pertinent to our

> discussion.

>

> Thank you,

>

> -Yuri

>

> At 01:25 PM 9/10/2003 -0400, you wrote:

>>Hi Yuri,

>>

>>I back from leave and am free tomorrow or Monday to discuss
the patent.

>>What time would be good for you?

>>

To: "Ramprashad, Sean A (Sean)" <ramprash@agere.com>
From: Yuri Gruzkov <yuri@mendelip.com>
Subject: initial draft
Cc:
Bcc:
Attached: D:\Yuri\992.1104\992_1104 text v02.doc; D:\Yuri\992.1104\992_1104 Scanned Figures Fig. 1-4.pdf;

Sean,

attached is the initial draft of your patent application for your review. Because this application is already past due for filing, please try to review the draft at your earliest convenience.

If you could, please acknowledge receipt of this message.

Thank you,
-Yuri



Exhibit H

FAX COVER SHEET

28 October 2003

Page 1 of 21

FROM: Yuri Gruzdkov yuri@mendelip.com	TO: Rick Botos
COMPANY NAME: Mendelsohn & Associates, P.C.	COMPANY NAME: Agere Systems Inc.
PHONE NUMBER: 215-557-8544	PHONE NUMBER: 610-712-8520
FAX NUMBER: 215-557-8477	FAX NUMBER: 610-712-8544
Our Ref.: 992.1104	Case Name: Ramprashad 4 IDS No.: 124661

MESSAGE

Dear Rick:

I am enclosing a draft of the above-referenced patent application for your review. This draft has been approved for technical accuracy and completeness by the inventor. Please let me know if you believe that any additional changes should be made to the application.

Thank you,
Yuri Gruzdkov

Confidentiality Note:

The information contained in this facsimile message is legally privileged and confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this facsimile is strictly prohibited. If you have received this facsimile in error, please immediately notify us by telephone. Thank you.

PLEASE CONFIRM SAFE RECEIPT

Exhibit I

Subject: RE: filing

Date: Fri, 7 Nov 2003 11:23:40 -0500

X-MS-Has-Attach:

X-MS-TNEF-Correlator:

Thread-Topic: filing

Thread-Index: Ac0ISqsbFFdHxVyRSZaKcE7aSpBKqQAAMwjw

From: "Ramprashad, Sean A (Sean)" <ramprash@agere.com>

To: "Yuri Gruzdkov" <yuri@mendelip.com>,

"Ramprashad, Sean A (Sean)" <ramprash@agere.com>

Cc: "amy Laudenslager" <amy@mendelip.com>

X-MFData: [v1.0 t0,61043]

Thanks for your efforts,

Best regards,

Sean

> -----Original Message-----

> From: Yuri Gruzdkov [mailto:yuri@mendelip.com]

> Sent: Friday, November 07, 2003 11:18 AM

> To: Ramprashad, Sean A (Sean)

> Cc: amy Laudenslager

> Subject: filing

>

>

> Sean,

>

> Rick Botos has just approved your application for filing without any
> additional changes to the draft (version 03). Amy

> Laudenslager of our firm

> will contact you with the paperwork.

>

> Please let me know if you have any questions or comments.

>

> Thank you,

> -Yuri

>

>